

SOC Medium

Materials and Equipment (100ml)

- Alcohol lamp
- Microtube rack
- Lighter
- Micropipette
- Micropipette tips
- Sterile pipettes
- Laminar flow hood
- Flask

Reagents

- Glucose
- Yeast Extract
- Bacto-peptone 2%
- NaCl
- KCl
- MgCl₂

Methodology

1. Prepare stock (1M) of 10 ml for each solution (NaCl, KCl, MgCl₂).
2. Wash perfectly good the flask in which the mixture will be done.
3. Add 2.0 g of bacto-peptone 2%
4. Add 5.0 g of yeast extract
5. Add 0.05 g of NaCl
6. Dissolve the mixture in 80.0 ml of H₂O
7. Sterilize the solution
8. Wait until the flask is cold
9. From the stock solutions take 0.25 ml of KCl, 1 ml of MgCl₂, 1 ml MgSO₄ and 2 ml of glucose and add them to the flask with the 90 ml solution previously prepared. (All the procedure must be inside the laminar flow hood.)
10. Leave the SOC medium with UV light for 20 minutes inside the laminar flow hood.
11. Incubate overnight at room temperature to guarantee medium sterility.